January 5,	2010	9:49:16	AM
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Accept

Setup Start



Page 1

Revision ID:

Item Name: Replacement Skidtube

Cust Item ID:

Stop

Start Date:

05/01/2010

D206-642-541

Start Qty: 1.00

Customer:

**Required Date:** 18/01/2010

Req'd Qty: 1.00

Reference:

Approvals: Process Plan:

Date 10-1-05

Date:

Tooling:

Date: \_\_\_\_\_

Start

Run



QC:

•

SPC (Y/N):

Date:

Stop

Sequence ID/ Work Center ID Operation Description

Set Up/ Run Hours Draw Number Draw Plan Rev. Code Accept Qty Reject Qty

Reject Insp. Number Stamp

Draw Nbr

Revision Nbr

D3274

100

D

IIN-D206-642

Rev M

\_\_\_\_\_

DOCUMENT CONTROL

Memo

0.00

0.00

**Document Control** 

Photocopy bluefile & type labels per PPP D206-642-541

CHG003

N/A H

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W/O:		· · · · · · · · · · · · · · · · · · ·	W	ORK ORDER CH	ANGES				· · · · · · · · · · · · · · · · · · ·	
DATE	STEP	PROCEDURE CHANGE				Ву	Date	Qty	Approval Chief Eng / Prod,Mgr	Approval QC Inspector
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Part No		PAR #:	Fault Cate	egory:	NC	R: Yes	No <b>DQ</b>	<b>\</b> :	Date: _	
	R	esolution:	Disposition	on:	QA: N/C Closed:				Date:	
NCR:			WORK ORD	ER NON-CONFO	RMANCI	E (NCR	)			
2475	0.755	Description of NC		<b>Corrective Action</b>	Section B		Verific	ation	Approval	Approval
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### Work Order ID 54925

January 5, 2010 9:49:16 AM

D206-642-541 Item ID:



Setup Start



Stop



Revision ID:

Item Name:

Replacement Skidtube

**Start Date:** 

05/01/2010

Start Qty: 1.00

**Required Date: 18/01/2010** Req'd Qty: 1.00



Date:

**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

Process Plan:

Date:

Tooling:

SPC (Y/N):

0.00

0.00

Date:

Date:

Start Run

Stop

Sequence ID/ **Work Center ID**  Operation Description Set Up/ **Run Hours**  Number

Draw Rev.

Plan Code Accept **Oty** 

Reject Qty

Reject Number

Stamp

110



Skidtubes

Skidtubes

Memo

Skidtubes

\*\*\*\*VERIFY AND INSPECT THE MATERIAL PRIOR TO USE\*\*\*\*

1- Bend FWD end of tube using bend prog D3274 FWD dwg D3274, cut fwd end of tube with saw table setup D3274.

2- remove fwd indexing ridge as per dwg D3274. Prepare for welding

3- weld fwd cap as per dwg D3274 and OSI004 AR Aluminum Rod Batch: M 11250 7

4- grind fwd cap weld on top surface only

5- Cut AFT end of tube at 170.9" as per dwg D3274 and deburr end

6-Drill Aft cap pilot hole using DT8025

7 -Cleco DT8025 in position and install pilot hole drill Jig DT8742A,B,C,D. Drill 3/16" pilot holes as per Dwg D3274

8 -Remove inner indexing ridge on aft end of skidtube as per Dwg D3274 scribe batch #

9 -Open aft end cap holes to Ø0.208" as per Dwg D3274. Deburr aft end.

W/O:			WORK ORDER	CHANGES					
DATE	STEP	PR	PROCEDURE CHANGE			Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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January 5, 2010 9:49:17 AM

Item ID:

D206-642-541

**Revision ID:** 

Item Name:

Replacement Skidtube

**Start Date:** 

05/01/2010

Start Qty: 1.00

Req'd Qty: 1.00 **Required Date: 18/01/2010** 



Accept



Setup Start

Stop



Page 3

**Cust Item ID:** 

**Customer:** 



Reference:

Approvals:

Process Plan: Date:

QC: \_\_\_\_ Date:

Tooling: SPC (Y/N):

Date:

Date:

Start Run

Stop



Sequence ID/ **Work Center ID** 

120

HandFinish

Hand Finishing

Operation

Description

Chemical Conversion Coat per QSI005 4.1

Memo

Set Up/ **Run Hours** 

0.00

Draw Number

Draw Rev.

Plan Code

Accept Qty

Reject Qty

Reject Number Stamp

130

QC

Quality Control

QC3- Inspect Part Finish

Memo

Memo

0.00

2) Siolo1/20

0.00

140

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

27 5 volut20

0.00

W/O:			_	WORK ORDER (	CHANGES				ø			
DATE	STEP		PR	OCEDURE CHANGE		Ву		By Date	<b>Qty</b>	Approval Chief Eng / Prod Mgr	Approva QC Inspecto	
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January 5, 2010 9:49:17 AM

Required Date: 18/01/2010

Item ID: D206-642-541

Accept



Setup Start

Stop



**Revision ID:** 

Item Name:

Replacement Skidtube

Start Date:

05/01/2010 Start Qty: 1.00

Req'd Oty: 1.00



**Cust Item ID:** 

**Customer:** 

Draw

Number



Reference:

Approvals:

Process Plan: Date: Tooling:

Date:

Draw

Rev.

Plan

Code

Run Start

Reject

Qty



Date: SPC (Y/N): Date:

Stop



Number Stamp

Sequence ID/ **Work Center ID** 

**Operation** Description

**Run Hours** 

**\**.

0.00

Set Up/

150



Skidtubes

Skidtubes

Skidtubes

0.00

1-Open Ø0.313" and 0.375" crossbolt spacer holes using DT8743 as per Dwg D3274

2-Deburr crossbolt spacer holes as per Dwg D3274 and blow out chips from inside the tube

3-Bond web in place as per Dwg D3274 & QSI 015. A/R .: Sikaflex-2915 M 1/2 395

Sikaflex expire date: 1 /0 - 8 - 3 O Start: 2 /0 - / - 10 Time: 1 / 0 M Finish: 2 /0 / 17 | Time: 2 / 15 Pm

(Adhere for 12 hours)

Accept

Qty

160



Quality Control

QC5- Inspect part completeness to step on W/O

Memo



0.00



W/O:			WORK ORDER (	CHANGES				
DATE	STEP	PROCE	DURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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January 5, 2010 9:49:17 AM

D206-642-541

Accept



Setup Start

Stop



**Revision ID:** 

Item Name:

Rauired Date: 18/01/2010

Replacement Skidtube

Start Date:

05/01/2010

Start Oty: 1.00 Reg'd Qty: 1.00



Cust Item ID: **Customer:** 

Reference:

Approvals:

Process Plan: Date:

Tooling:

Date:

Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/

**Operation Work Center ID** 

Set Up/ **Run Hours**  Draw Number Draw Rev.

Plan Accept Qty Code

Reject Qty

Run

Reject Stamp Number

170



Skidtubes

Description

Skidtubes

0.00

0.00

Memo 1-Bend AFT end of tube using bend prog. D3274 AFT as per dwg D3274. Install drop pins in crossbolt spacer holes to maintain web position.

2- DRILL PILOT HOLES FOR WEARPLATES USING D3274-1T2 OPEN HOLES TO .297". Deburr

3-DRILL TOE PIN HOLE.640" DIA AS PER DWG USING DT8935 FWD **END OF TUBE** 

DEBURR INSIDE OF HOLE AS NECESSARY (DO NOT ENLARGE HOLES) REMOVE ANY FOREIGN OBJECTS INSIDE OF TUBES

4- Countersink crossbolt spacer holes as per Dwg D3274

5- prepare for welding

180



Quality Control

QC5- Inspect part completeness to step on W/O

0.00



Sioloiles



Memo

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W/O:			WC	<b>PRK ORDER CHANGES</b>					
DATE	STEP	PROCEDURE		EDURE CHANGE			Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Cate	gory: N	NCR: Yes	No DQA		_ Date: _	
	R	esolution:	Dispositio	n: (	A: N/C C	losed:		Date:	
NCR:		,	WORK ORDI	ER NON-CONFORMAN	CE (NC	R)			
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DATE	STEP	Section A	Initial	<b>Action Description</b>	Sign	& Section		Chief Eng	QC Inspector

NCR:			WORK ORDI	ER NON-CONFORMANC	E (NCR)			
		Description of NC		Corrective Action Section B		Verification	Annewal	Approval QC Inspector
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	
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#### Work Order ID 54925



Page 6

January 5, 2010 9:49:17 AM

D206-642-541

Req ed Date: 18/01/2010

Accept



Setup Start

Stop



**Revision ID:** 

Item Name: Replacement Skidtube

> 05/01/2010 Start Qty: 1.00



**Cust Item ID: Customer:** 



Run

Refe. ence:

Start Date:

**Process Plan:** 

\_\_\_\_ Date:

Tooling:

Date:

Start



Approvals:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/ **Work Center ID** 

Operation Description Set Up/ **Run Hours**  Draw Number

Plan Draw Rev. Code

Accept Qty

Reject Qty

Reject Number Stamp

190

Skidtubes

Skidtubes

Skidtubes

Req'd Qty: 1.00

Memo

0.00

0.00

1-Insert D2649 & D3275-1 crossbolt spacers. Weld as per QSI 004 and Dwg D3274. Remember to back drill each hole before welding the other side. Use

A/R∏∃Aluminum Rod∃/Y.

3-Grind cross bolt welds flush as per Dwg D3274

4-Counterbore 5/16" x 0.750" deep as per Dwg D3274 and deburr.

200

QC

QC5- Inspect part completeness to step on W/O

Quality Control

Memo

W/O:			WORK ORDER (	CHANGES				
DATE	STEP	PR	PROCEDURE CHANGE		By Date	Qty	Qty Approval Chief Eng / Prod Mgr	Approva QC Inspector
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Part No	):	PAR #:	Fault Category:	<b>NCR</b> : Ye	s No <b>DQ</b>	A:	Date: _	<u>.</u>
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NCR:		WORK ORDER NON-CONFORMANCE (NCR)										
		Description of NC		Corrective Action Section E	Verification	A1	Annessal					
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector				

#### Work Order ID 54925



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January 5, 2010 9:49:17 AM

Require Date: 18/01/2010

Item ID:

D206-642-541

Accept



Setup Start



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

05/01/2010 Start Qty: 1.00

Reg'd Qty: 1.00



Cust Item ID: **Customer:** 

Stop

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Draw

Start

QC: \_\_\_\_

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/ **Work Center ID** 

210



Quality Control

Operation Description

QC10- Inspect visual per QSI004- ground welds

Set Up/ **Run Hours** 

Number

Draw

Rev. Code

Reject Accept Qty

Run

Reject Number Stamp

Memo

0.00

Plan

Qty



HandFinish Hand Finishing

Memo

Pressure Wash per QS1005 4.3

0.00

0.00

BL 10-02-10 D.

RE-ALADINED P.HP. 09-043

230



Powdercoat

**Powder Coating** 

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

1113170

Memo

START TIME: 9:30pm OVEN TEMPERATURE: 370°/= FINISH TIME: 16:00Au

0.00 =) Il 10/02/10

W/O:		WORK ORDER CHANGES											
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector						
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Part No: _		PAR #:	Fault Category:	NCR: Yes No	DQA:	Date:
	Resolution:		Disposition:	QA: N/C Closed	i:	Date:

WORK ORDER NON-CONFORMANCE (NCR)										
ation Approval	Approval									
	QC Inspector									
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#### Page 8

#### Work Order ID 54925 January 5, 2010 9:49:17 AM Accept D206-642-541 Setup Start Item ID: Revision ID: Stop Replacement Skidtube Item Name: Start Oty: 1.00 Start Date: ... 05/01/2010 **Cust Item ID:** Required te: 18/01/2010 Req'd Qty: 1.00 Customer: Reference: Start Run Process Plan: Tooling: Date: Date: **Approvals:** Stop QC: SPC (Y/N): Date: Date: Plan Reject Operation Draw Draw Accept Sequence ID/ Set Up/ Rev. Code Qty Qty Number Stamp Number Work Center ID Description **Run Hours** QC3- Inspect Part Finish 240 0.00 QC. Memo Quality Control 0.00 250 HandFinishing 0.00 HandFinish Memo 1-Install Nut Plate as per Dwg D3274. Apply LPS-3 to Nut Plate and rivets. Hand Finishing A/R TN/A TLPS-3 LL 2-Install inserts as per Dwg D3274. Use a drop of Sikaflex inside insert holes a A/R Sikaflex-291 Sikaflex expire date: OC5- Inspect part completeness to step on W/O

0.00

Memo

Inspect Nut Plate & Inserts

260

Quality Control

W/O:		WORK ORDER CHANGES					۴.
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No: PAI	R #: Fault Category:	NCR: Yes No DQA:	Date:
Resolution:	Disposition:	QA: N/C Closed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)										
5.4==		Description of NC		Corrective Action Section B	Verification	Approval	Approval					
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector				

### Work Order ID 54925

Page 9

January 5, 2010 9:49:17 AM

Item ID:

D206-642-541

Accept

Setup Start

Stop



**Revision ID:** 

Item Name:

Replacement Skidtube

**Start Date:** 

05/01/2010 Required Date: \$\int\_01/2010

Start Qty: 1.00 Req'd Qty: 1.00

**Cust Item ID: Customer:** 



Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Start

Run

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/ Work Center ID

270



HandFinish

Hand Finishing

Operation Description Set Up/ Run Hours Draw Number

Rev.

Plan Code Accept Qty

Reject Qty

Number Stamp

HAND FINISHING RESOURCE #1

Memo

0.00

0.00

1-Install wearpads & gaskets as per Dwg D3274.

2-Install ring as per Dwg D327 A/R 
Sikaflex-291

Sikaflex expire date:

10-02-26

3-Inspect for foreign objects as per QSI 024

4-Spray inside of tube on both sides of web with LPS-3 Batch:

LPS-3 A/R

5-Install Aft Cap and seal with, Sikaflex, Clean excess adhesive.

A/R Sikaflex-291 Sikaflex expire date:

QC5- Inspect part completeness to step on W/O

bl 16-02-26,

280

Memo

0.00

Quality Control

W/O:			WORK ORDER	CHANGES	<del></del>		<b>m</b>		•
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Part No	):	PAR #:	Fault Category:	NCR:	Yes	No <b>DQ</b>	A:	Date: _	
	Resolution:		Disposition:	QA: N	VC CI	Date: _			
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NCR:		WORK ORDER NON-CONFORMANCE (NCR)										
		Description of NC		Corrective Action Section B	Verification	Ammuoval	Approval					
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector				

#### Work Order ID 54925

Page 10

January 5, 2010 9:49:17 AM

Required Date: 18/13/2010

Item ID:

D206-642-541

Accept

Setup Start

Stop



**Revision ID:** 

Item Name:

Replacement Skidtube

Start Date:

05/01/2010

Start Qtv: 1.00 Req'd Oty: 1.00



**Cust Item ID: Customer:** 



Reference:

Approvals:

Process Plan:

Date:

**Tooling:** 

Date:

Start

Run



Date:

SPC (Y/N):

Date:

Stop

Reject

Qty

Sequence ID/ Work Center ID

290

Packaging Packaging

Operation Description

Identify as per dwg & Stock Location:

Set Up/ **Run Hours** 

0.00

Draw Number

**Draw** Rev.

Plan Code

Accept Qty

Reject Number Stamp

Memo

Memo

0.00

300

QC

Quality Control

QC21- Final Inspection - Work Order Release

0.00

0.00

W/O:			WORK ORDER	CHANGES					
DATE	STEP	PR	OCEDURE CHANGE	В	y I	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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NCR:		WORK ORDER NON-CONFORMANCE (NCR)										
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Picklist Print January 5, 2010 9:4	9:22 AM, I											Page 1
Work Order ID: 54925  Parent Item: D206-642-541  Parent Item Name: Replacement Skidtube  Comments:							tart Date: 05/0	1/2010	Required Dat Required Qt			
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Frate Say ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D2600-1-190  Extrusion Round 3" 206		Manufactured	No			110	Each	56.0000	1.0000			
D3285-1		Manufactured	No	Warehoo Loca Main Wa ST	ntion	<u>Loc (</u>	56 56 Each	Loc Code 167.0000	1.0000	) 	D-1-1	5
Сар				<u>Wareho</u> <u>Locs</u> Main Wa	ation	<u>Loc</u> .	Oty 167 18 74	Loc Code	 	7	BE 10	/o// 2
D3282-041 Float Web (206L/407)		Manufactured	No		52647	150	75 Each	7.0000	1.0000			
				Wareho Loca Main Wa LG	ation	<u>Loc</u>	Otv 7 1 6	Loc Code			/	1-00

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NCR:			WORK ORDE	R NON-CONFORMA	NCE (NC	R)								
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January 5, 2010 9:49:22 AM

Work Order ID: 54925

Parent Item:

D206-642-541

Parent Item Name: Replacement Skidtube

Manufactured

Comments:



Start Date: 05/01/2010

Required Date: 18/01/2010

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Ter acement	Mfg/ Purch	Bin Item	Primary Location	Last Location	Rose Seq	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D2649		Manufactured	No			190	Each	202.0000	1,0000		• -	. •

Cross Bolt Spacer

Warehouse	Loc	<u>Oty</u>	Loc Code				
Location							
Main Warehouse							
LG		83					. /
51529		83			12	BE	10/01/25
Main Warehouse							, ,
ST		119					
36013		5					
47112		110					
48271		4					
	190	Each	58.0000	12.0000			

D3275-1

Crossbolt Spacer

Warehouse	Loc Qty	Loc Code	
Location			
Main Warehouse			
ST	58		
47464	1		
48117	3		
52510	9		
53453	45		12 BE apr 25

W/O:			WORK ORDER C	HANGES					
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### **Picklist Print**

January 5, 2010 9:49:22 AM

Work Order ID: 54925

Parent Item:

D206-642-541

Parent Item Name: Replacement Skidtube

Component Item ID/

Comments:

Replacation Mfg/ Item 鍵)

Purch

Bin Primary Item Location

Last Location

Route St. Unit of Seq ID @ Measure Hand

Qty on Remaining Oty To Pick Issued

Start Qty: 1.00

Start Date: 05/01/2010

Date Issued

Required Date: 18/01/2010

Required Qty: 1.00

2. bl 10-02-26

Page 3

CR3212-4-03

Item Name



Cherry Rivet

Purchased

Manufactured

No

250

250

Each

274.0000 2.0000

Loc Code



Warehouse

Location

Main Warehouse

ST 110 134 111359

112314

274 84

Loc Oty

190 Each

77.0000 1.0000

Loc Code

D3415-041

Nut Plate

Warehouse Loc Qty Location Main Warehouse ST 77 33842 : 77

- 1 pl/16-02-26

W/O:		WORK ORDER CHA	NGES					
DATE	STEP	PROCEDURE CHANGE	В	у [	Date .	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No:		PAR #:	Fault Category:	NCR: Yes No	DQA:	Date:	
	Resolution:		Disposition:	QA: N/C Closed	i:	Date:	

NCR:			WORK ORDE	ER NON-CONFORMAN	CE (NCR)	•		
_,_,	T	Description of NC		Corrective Action Section B				Ι
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector
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								:
				•				

Warehouse Loc Qty Loc Code Location Main Warehouse ST 13

13

51600

1 1 1002-2c Page 4

January 5, 2010 9:49:22 AM

Gasket

**Shop Packet Print** 

Page 4

W/O:			WO	RK ORDER CHAN	GES					. ,
DATE	STEP	PRO	OCEDURE CHAN	IGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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1. 1							i Birant	,		
Part No	:	PAR #:	Fault Categ	jory:	NCR	R: Yes I	No <b>DQ</b>	۱:	_ Date: _	
	Resolution:		Disposition	);	QA:	N/C Clo	sed:		Date: _	
NCR:		WORK ORDE	R NON-CONFORM	IANCE	(NCR	)				
DATE	STEP	Description of NC	Corrective Action		Section B otion Sign &		Verific		Approval	Approval
D/((C	J.L.	Section A	Initial Chief Eng	Action Description  Chief Eng		Date	Section	on C	Chief Eng	QC Inspector
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January 5, 2010 9:49:22 AM

Work Order ID: 54925

Parent Item:

D206-642-541

Parent Item Name: Replacement Skidtube

Component Item ID/

Comments:

Item Name

Replacement Item 15

Mfg/ Purch

Manufactured

Manufactured

Primary Bin Item Location Last Location

Route Seq ID

270

nit of Measure Hand

Each

3

3

13

12

Loc Qty

Qty on

16.0000

Loc Code

Remaining Qty To Pick Issued

1.0000

Start Date: 05/01/2010 Start Qty: 1.00

Date Issued

Required Qty: 1.00

Required Date: 18/01/2010

bl 10-02 26

D3536-23

Gasket

Warehouse Location Main Warehouse

FP 516093 Main Warehouse

ST 30754

53468

270

Each

20.0000 1.0000

Loc Code

D3536-35

Gasket

Warehouse Loc Qty Location Main Warehouse ST 20 51628 20

-BR 10-02 DC.

Dart	Aerospace	Ltd
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W/O:			WO	RK ORDER CHAN	GES				
DATE	STEP	PRO	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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			•						
Part No	:	PAR #:	Fault Categ	gory:	NCR: Yes	No <b>DQ</b>	A:	Date: _	
		esolution:							
NCR:		WORK ORDE	R NON-CONFORM	ANCE (NC	R)				
DATE	STEP	Description of NC			ection B	Verifi	cation	Approval	Approval
	JILF	Section A	Initial Chief Eng	Action Description Chief Eng	n Sign Dat	& Sect	ion C	Chief Eng	QC Inspector
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				1970					

### **Picklist Print**

January 5, 2010 9:49:22 AM

Work Order ID: 54925

Parent Item:

Comments:

Item Name

D206-642-541

Parent Item Name: Replacement Skidtube





Start Date: 05/01/2010

Required Date: 18/01/2010

Required Oty: 1.00

Component Item ID/

Replacement Mfg/ Item ID

Purch

Bin Primary Item Location Last Location

Route Seq ID

len of Pasure Hand

Oty on Remaining Qty To Pick Issued

Start Qty: 1.00

Qty

Date Issued Status 👸

Page 6

D3536-39

Manufactured No

Manufactured

270

Each

14.0000 1.0000

Gasket

	<u>Warehouse</u>	Loc	<u>Oty</u>	Loc Code		
	<b>Location</b>					
	Main Warehouse					4
	FP /		12			
	51637		12			DF 10-02-26.
	Main Warehouse					, .
	ST		2			
	44648		1			-
	48161		1			
No		270	Each	15.0000	1.0000	

D3535-15

Wearshoe

Warehouse Location	Loc Qty	Loc Code
Main Warehouse		
ST	15	
30750	4	
42233	1	
42233 53462 <b>1</b>	10	

11888

ph 10-02 26.

W/O:		WORK ORDER CHANGES								
DATE	STEP	PRO	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
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Dart No	<b>,.</b>	DAD #-	Fault Catagory	NCD. Voc	No DO		Deter			

Part No:		PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
	Resolution:		Disposition:	QA: N/C Closed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC		Corrective Action Section B	Verification	Approval	Approval				
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector			
							:				
								ľ			

January 5, 2010 9:49:22 AM

Work Order ID: 54925

Parent Item:

D206-642-541

Parent Item Name: Replacement Skidtube

Manufactured

Manufactured

Comments:



Start Date: 05/01/2010

Required Date: 18/01/2010

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Upt of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status	
D3535-35		Manufactured	No			270	Each	18.0000	1.0000		<del>_</del>	•	
											•		



Wearshoe

<u>Warehouse</u>	<u>Lo</u>	c Qty	Loc Code		
Location					
Main Warehouse					,
ST		18			
51608		18			
	270	Each	12.0000	1.0000	



Wearshoe

Warehouse	Lo	oc Oty	Loc Code	
<u>Location</u>				
Main Warehouse				
FP 7		12		
51619 .		12		
	270	Each	10.0000	1.0000



Wearshoe

D3535-23

Warehouse Location	Loc Qty	Loc Code
Main Warehouse		
ST	10	
53467	10	

1 pl 10-02 26

bl 10-02-26

W/O:			WORK ORDER C	HANGES				
DATE	STEP	PROCEDURE CHANGE			Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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			<b>3</b> ;		**,			
Part No	I	PAR #:	Fault Category:	NCR: Yes		<u> </u>	L	

Resolution:		esolution:	Disposition	n:	QA: N/C Clos	sed:	Date:	
NCR:		,	WORK ORDI	ER NON-CONFORMA				
		Description of NC		Corrective Action Section	on B	Verification	Approval Chief Eng	Approval QC Inspector
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C		
	}							
· · · · · · · · · · · · · · · · · · ·					A Company			}
	<del> </del>			741				

NOTE: Date & initial all entries

### **Picklist Print**

January 5, 2010 9:49:22 AM

Work Order ID: 54925

Parent Item:

Comments:

D206-642-541

Parent Item Name: Replacement Skidtube



Start Date: 05/01/2010

**Required Date: 18/01/2010** 

Start Qty: 1.00

Required Qty: 1.00

Com	ponent	Item	ID/
Item	Name		

Replacemen Mfg/ Item ID

Primary Item Location

No

No

Last Location

Route Seq ID

270

Unit#£ Meastre

Oty on Hand

Remaining **Qty To Pick**  Qty Issued

Date Issued

Page 8

D3537-3

Manufactured

Manufactured

Each

40.0000

1.0000

W

Vearpad	

Loc Oty Loc Code Warehouse Location Main Warehouse ST 40 6 33881 35697-34 141.0000 9.0000 270 Each

bl 10-02-26.



Wearpad

Warehouse	Loc Qty	Loc Code			
<b>Location</b>					
Main Warehouse					
FP	2				
48288	2				
Main Warehouse					
FP17	139				
51678 51679	34				
51679	105				

9 pl 10-02-06.

W/O:	T		WC	BK OBDEB CHAN	IGES		,			<u> </u>
DATE	STEP	WORK ORDER CHANGES  PROCEDURE CHANGE			T	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
							:			
Part No:		PAR #:								
Resolution:			Disposition:			N/C CId	sed:	****	Date:	
NCR:			WORK ORD	ER NON-CONFOR	MANCE	(NCR	)	_		
DATE	STEP	Description of NC	Corrective Action Section			0: 0	Verification		Approval	Approval
	012.	Section A	Initial Chief Eng	Action Descriptio	n	Sign & Date	Secti	on C	Chief Eng	QC Inspector
					,					
				TAPA			<del> </del>			
										Addr.

January 5, 2010 9:49:23 AM

Work Order ID: 54925

Parent Item:

D206-642-541

Parent Item Name: Replacement Skidtube

Comments:

Component Item ID/

Replacement Man Item ID

Primary Item Location

Last Location

Route Seq ID Unit of Cry on Measure Hand

Remaining **Qty To Pick** 

Start Qty: 1.00

Start Date: 05/01/2010

Issued

Date Issued

**Required Date: 18/01/2010** 

Required Qty: 1.00

Status

AN960C10L

Item Name

Purchased

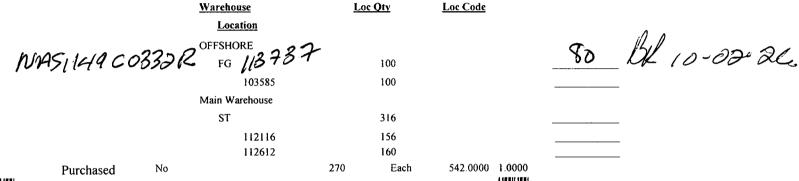
No

270

Each

416.0000 80.0000

washer	



AN960C416

washer

Warehouse Loc Oty Loc Code Location Main Warehouse ST 542 100993 542

1 tol 10.02-34.

W/O:		CHANGES	IGES								
DATE STEP		PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
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Part No:	· · · · · · · · · · · · · · · · · · ·	PAR #:	Fault Category:	NCR: Yes No	DQA:	Date:
	Resolution:		Disposition:	QA: N/C Closed	<b>:</b>	Date:

		WOIN ONDE	ER NON-CONFORMAN	CE (NCH)			
	Description of NC		Corrective Action Section E	Verification	Approval	Approval	
STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
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	STEP	STEP Description of NC Section A	STEP Section A Initial	STEP Section A Initial Action Description	STEP Section A Initial Action Description Sign &	STEP Section A Initial Action Description Sign & Verification Section C	STEP Section A Initial Action Description Sign & Verification Approval

#### **Picklist Print**

January 5, 2010 9:49:23 AM

Work Order ID: 54925

Parent Item:

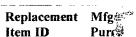
D206-642-541

Parent Item Name: Replacement Skidtube

Component Item ID/

Comments:

Item Name



Bin Primary Item Location Location

Route Seq ID

Unit of Measure Hind

Gwon Remaining Qty To Pick

Qty Issued

Status

Page 10

D3672-1

Manufactured

No

270

Each

1,744.000 2.0000

Start Date: 05/01/2010

Start Qty: 1.00

Date Issued

Required Qty: 1.00

Required Date: 18/01/2010

Phenolic Washer

Warehouse	Loc Oty	Loc Code
Location		
Main Warehouse		
ST	1244	
39275	19	
42329 47628	5	
47628	220	

52505 Main Warehouse ST117

51674

1000 500 500

2 /DR 10-02. 26,

W/O: WORK ORDER CHANGES								
DATE	STEP	PROCEDU	EDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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		% ¢						
Part No	:	PAR #:	Fault Category:	NCR: Y	es No DC	A:	Date:	
	F	esolution:	Disposition:	QA: N/0	Closed:		Date: _	

NCR:		WORK ORDER NON-CONFORMANCE (NCR)							
		Description of NC		Corrective Action Section B		Verification	Approval	Approval QC Inspector	
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng		
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#### **Picklist Print**

January 5, 2010 9:49:23 AM

Work Order ID: 54925

Parent Item:

D206-642-541

Parent Item Name: Replacement Skidtube

Comments:



Start Date: 05/01/2010

Required Date: 18/01/2010

Page 11

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qt⊊on Ha≉l	Remaining Qty To Pick	Qty Issued	Date Issued	Status
AN3C4A		Purchased	No			270	Each	1,195.000	80.0000			



Warehouse	Loc Qty	Loc Code		
Location				
Main Warehouse		•	80	Rillian
ST 110644	1195			BK10-00-06
112314	13			
112720	12			
112724	3			
112829	1			
112991	2			
113121	64			
113226	586		<del></del>	
113359	14		THE INVEST.	
113422	500			
27	70 Each	571.0000 1.0000		
		1 (84) (84)		

AN4C5A

BOLT

Purchased

No

Warehouse	Loc Qty	Loc Code
Location		
Main Warehouse		
ST	571	
104936 110552	5	
110552	64	
112243	500	
18918	2	

W/O:		WORK ORDER (	WORK ORDER CHANGES							
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
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l										
		•								
Part No	):	PAR #: Fault Category:	NCR: Yes	No <b>DQ</b>	A:	Date:				

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_ QA: N/C Closed: \_\_\_\_ Date: \_\_\_\_

NCR: WORK ORDER NON-CONFORMANCE (NCR)								
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DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date			
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				1400 - 14			1	

January 5, 2010 9:49:23 AM

Work Order ID: 54925

Parent Item:

5)206-642-541

Parent Item Name: Replacement Skidtube

Component Item ID/

Comments:

Item Name

Replacement	Mfg/	He all
Item ID	Purch	4

Primary Item Location

Last Location

Route Seq ID Unit of

Qty o Remaining

Measure Hand Qty To Pick Issued

**Start Date: 05/01/2010** Start Qty: 1.00

> Date Issued

Status

Required Date: 18/01/2010

Required Qty: 1.00

D2646

Manufactured

Manufactured

270

Each

65.0000 1.0000

Aft Cap

Warehouse	<u>Lo</u>	c Qty	Loc Code	
<b>Location</b>				
Main Warehouse				
FP6		29		
52663		29		
Main Warehouse				
fp7		13		
52663		13		
Main Warehouse				
ST		23		
46327		4		
48109		19		
	270	Each	45.0000	1.0000

D3413-1

Ring

Warehouse	Loc Qty	Loc Code
Location		
Main Warehouse		
ST	27	
53446	27	
Main Warehouse		
ST473	18	
51586	18	

1 bl 10-02-20

ph 10-02-26.

Duit Ac	Ospace	Liu								,
W/O:			WO	RK ORDER CHANG	ES					· ×
DATE	STEP	PR	OCEDURE CHAN	IGE	В	у	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
									٠	
Part No	:	PAR #:	Fault Categ	ory:	_ NCR: `	Yes N	lo <b>DQ</b>	A:	Date: _	
	Re	esolution:	Disposition	:	_ QA: N/	C Clo	sed:	-	Date: _	
NCR:			WORK ORDE	R NON-CONFORM	ANCE (I	VCR)				
DATE	CTED	Description of NC			ion B		Verifi	cation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng		ign & Date		on C	Chief Eng	QC Inspector
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SHOP COPY -RETURN TO **ENGINEERING UNCONTROLLED COPY** SUBJECT TO AMENDMENT

WITHOUT NOTICE NO. 54925 PN 10-1-05



DESIG	CP	DRAWN BY	DART AEROSPACE USA, INC.
CHECK	(ED V	APPROVED 4	DRAWING NO. REV. D
	-11	一册	D3274 SHEET 1 OF 4
DATE	<del></del>		TITLE SCALE
06.1	2.19		SKIDTUBE ASSEMBLY NTS
A		04.03.15	NEW ISSUE
В		04.08.09	MOVE SADDLE HOLE: 42.14 WAS 42.76
С		05.03.16	ADD -043; NEW INSERTS
D		06,12.19	NEW INSERTS, SS WEARSHOE + GASKET

RELEASED	
07.02.12	
DEO ATTACHED	

Qty -041	Qty -043	Part Number	Description
X		D3274-041	SKIDTUBE ASSEMBLY
	X	D3274-043	SKIDTUBE ASSEMBLY
1.,	1	D2600-1-240	EXTRUSION
- 10	1	D2646	AFT CAP
12	\$ 40°	D2649	CROSS BOLT SPACER
12	37	D3275-1	CROSS BOLT SPACER
1	1	D3282-041	FLOAT WEB
1	1	D3285-1	CAP
1	1	D3413-1	RING
1	1	D3415-041	NUT PLATE
1	1	D3535-15	WEARSHOE
1	1	D3535-23	WEARSHOE
1	1	D3535-35	WEARSHOE
1	1	D3535-39	WEARSHOE
1	1	D3536-15	GASKET
1	1	D3536-23	GASKET
1	1	D3536-35	GASKET
1	1	D3538-39	GASKET
9	9	D3537-1	WEARPAD
1	1	D3537-3	WEARPAD
78	78	ALS7-1032-130	INSERT (or AKS4-1032-130, ALS4-1032-130, AELS-1032-130)
80	80	AN3C4A	BOLT
1	1	AN4C5A	BOLT
1	1	AN960C416	WASHER
80	80	AN960C10L	WASHER
2	2	CCR264853-3	RIVET
2	2	CR3212-4-03	RIVET
2	2	NAS1515H3L	WASHER

#### **GENERAL NOTES:**

- 1. TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- 2. DAMAGE TOLERANCE ON FWD BEND:

THERE SHOULD BE NO VISIBLE WRINKLES IN THE BEND FROM THE GROUND TO A HEIGHT OF 7 INCHES ABOVE THE GROUND. IT IS ACCEPTABLE TO POLISH OUT GOUGES UP TO 0.020 DEEP IN THE BENT PORTION OF THE TUBE. A MAXIMUM REDUCTION IN DIAMETER OF 0.156" IS ACCEPTABLE IN THE BENT POFE ION OF THE TUBE

- 3. ALL HO 表表 ON CENTERLINES.
- 4. BOND D3282-041 FLOAT WEB INTO D3274-1/-3 OUTER TUBE WITH NON-STRUCTURAL SIKAFLEX-241/291 ADHESIVE PER DART QSI 015. ENSURE HOLES LINE-UP.
- 5. WELDING TO BE DONE PER DART QSI 004.
- 8. FINISH: ACID ETCH, ALODINE ASSEMBLY PER DART QSI 005 4.1 - POWDER COAT WHITE (REF. 4.3.5.1) PER DART QSI 005 4.3
- 7. DRILL @0.207 HOLES FOR ALS7-1032-130 INSERTS USING DT3274-172 BEFORE FINISH. INSTALL ALS7-1032-
- 130 INSERTS AFTER FINISH. SEAL WEARSHOE BOLTS WITH SIKAFLEX -241/-291.

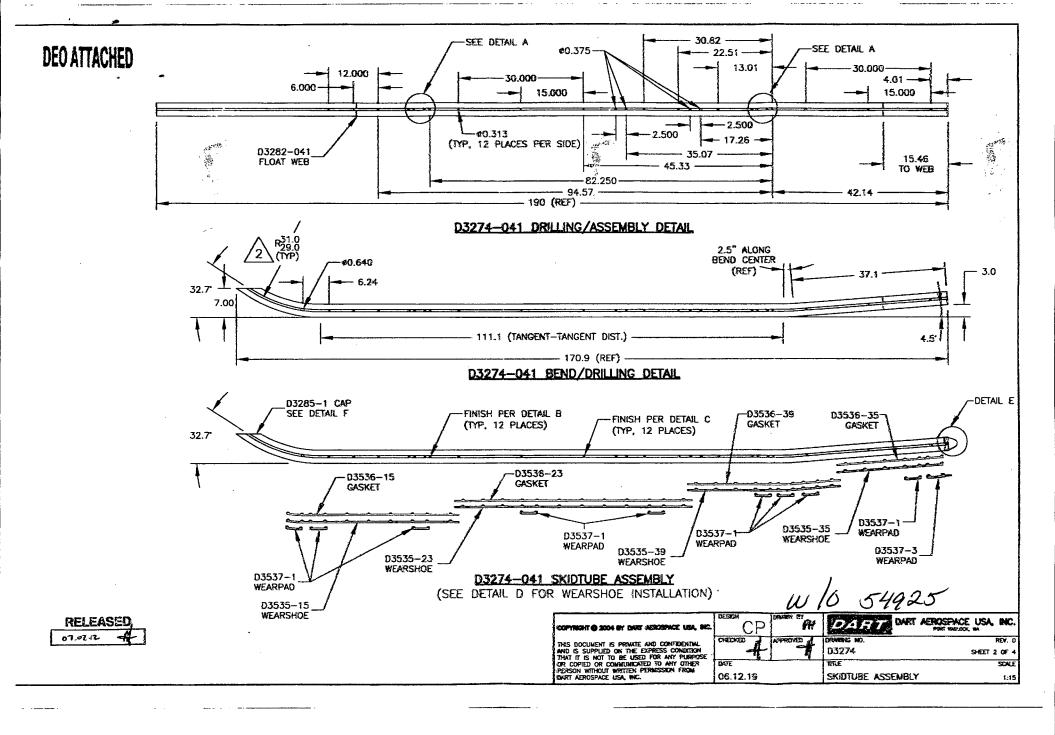
  8. SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH AND INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.

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W/O:			WORK ORDER C	HANGES				
DATE	STEP		PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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							:	
			•					
Part No	:	PAR #: _	Fault Category:	NCR: Ye	s No <b>DQ</b>	A:	_ Date: _	
	R	esolution:	Disposition:	QA: N/C	Closed:		Date: _	

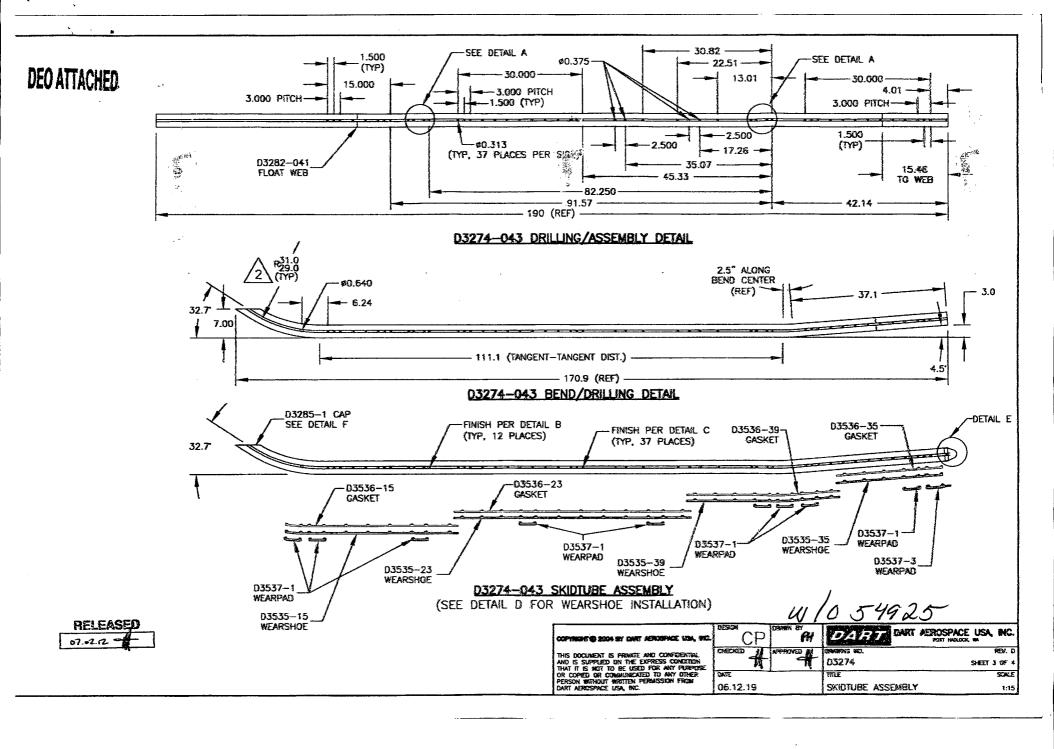
NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC		Corrective Action Section B	3	Verification	Ammunial	Approval			
DATE	STEP	Section A	Initial Chief Eng	Action Description  Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approva QC Inspecto			
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W/O:		WORK ORDER CHAN	IGES				
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Part No	):	PAR #: Fault Category:	NCR: Yes	No DQ	A:	Date: _	

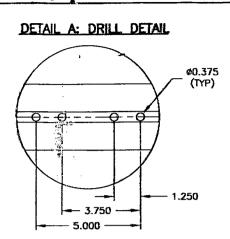
Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_ Date: \_\_\_\_

NCR: WORK ORDER NON-CONFORMANCE (NCR)										
		Description of NC		Corrective Action Section B		Verification	<b>A</b>	A		
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector		
				·						



W/O:		WORK ORDER CHANGES						<b>8</b> ,		
DATE	STEP		PR	OCEDURE CHANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	):		PAR #:	Fault Category:	NCR	: Yes	No <b>DQ</b>	<b>A</b> :	_ Date: _	
	Re	esolution:		Disposition:	QA:	N/C C	losed:		Date:	
NOD				WORK ORDER NON-COM	JEORMANCE	(NC	B)			

NCR:		WORK ORDER NON-CONFORMANCE (NCR)								
		Description of NC		Corrective Action Section B	Verification	Approval Chief Eng	Approval			
DATE	STEP	Section A			Sign & Date		Section C	QC Inspector		



#### DETAIL B FOR \$0.375 HOLES ONLY



4. C'BORE TO Ø0.313x0.75 DEEP

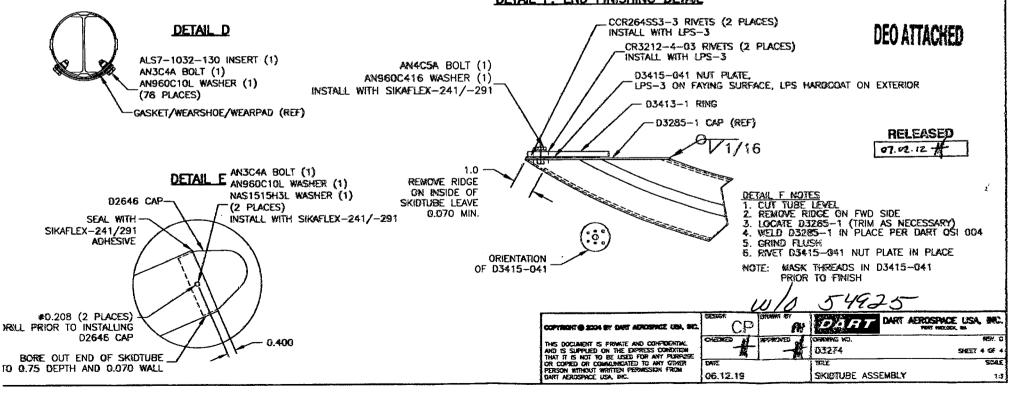
FOR #0.313 HOLES ONLY

O3275-1 SPACER

CHAMFER 31.030x45

(TYP)

#### DETAIL F: END FINISHING DETAIL



W/O:			WORK ORDER CHANGES							
DATE	STEP		PRO	Ву	By Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
								lier .		
				·						
	<u>l</u>					<u> </u>	1			
Part No	:		PAR #:	Fault Category:	NCR: Yes	s No DQ	A:	_ Date: _		
	Б	esolution:		Disposition	OA. N/C	Classel.		Doto		

NCR:		WORK ORDER NON-CONFORMANCE (NCR)								
		Description of NC	Corrective Action Section B			Verification	<b>A</b> •			
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector		
					:					
				V-374-7-07-1						
						<u>'</u>				
								-		

DRAWING NO.	TITLE	1	REV. D D	ART AEROSPACE USA, II	NC D.E.O. NO.	SHEET NO.	SCALE
D3274	SKIDTUBE A	SSEMBLY		ENGINEERING ORDER	D3274-D-1	SHEET 1 OF 1	NTS
DRAWN (	7	CHECKED	4	MFG. APPR.	APPROVED A	DE APPR.	
DATE ,09.0	6.47	DATE 09.06-	23	DATE 59/06/23	DATE PIGEZ	DATE 09 06.23	

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF SKIDTUBE.

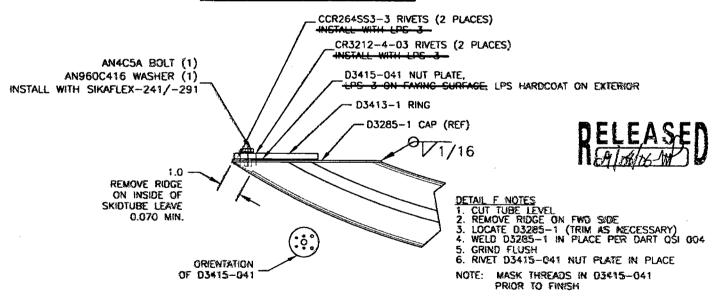
AMEND NOTE 8: "SPRAY INSIDE OF TUBE WITH A COAT OF LIFE LABORATORIES 'LPS 2' AFTER FINISH AND INSTALLATION OF INCERTS.

COAT ALL EXPOSED FASTENERS WITH LPS LEBORATORIES 'LPS PROCYON' AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER."

AMEND DETAIL F AS SHOWN:

W/054925

#### DETAIL F: END FINISHING DETAIL



THIS/GOCIMENT IS PRIVATE AND CONTRIBUTED AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT 1978 USED FOR ANY PURPLE ONLINES FOR COMMUNICATION TO ANY OTHER PERSON WITHOUT WHATTEN PERVAINS WITH PROMISE ANY ACROSMOZE USIN, INC.

W/O:		WORK ORDER CHANGES	WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
						<b>P</b> 3		
Part No	:	PAR #: Fault Category: No	CR: Yes	s No DQ	· 4:	Date:		

NCR:		WORK ORDER NON-CONFORMANCE (NCR)								
		Description of NC		Manific adian						
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector		
								,		
,										

NO. all

# AWS D17.1.2001 QUALIFICATION TEST RECORD

Name: Bardon Elliott
Job number: Sacra Sacra
Part number: Dade 642: 541
Description: 306 skid
Welding Process: Tig Mig ]
Base materiel: Aluminian
Current: AC[ ] DC[ ]

# TEST REQUIREMENTS AND RESULTS

Visual: Penetration:	pass[] pass[]	fail[ ] fail[ ]
<u>UNACCEPTABLE</u>		
Cracks: Undercut: Pin holes: Overlap (cold lap) Porosity (surface): Coloration:	pass[/] pass[/] pass[/] pass[/] pass[/]	fail[ ] fail[ ] fail[ ]
Qualifier Sold Sull Welder And Sull Suit 1		est Coupon <u>C9 11 10</u>

The above named individual is qualified in accordance with AWS D17.1.2001 to weld